U.S. Dept. of Commerce Patent and Trademark Office

Serial No. Atty Docket No. 09/104,063 P0706P2C2D2 **Applicant** 

## LIST OF DISCLOSURES CITED BY APPLICANT

(Use several sheets if necessary)

FORM PTO-1449

| Lee et al.  |          |
|-------------|----------|
| Filing Date | Group AL |
| 24 Jun 1998 | 1646     |

## **U.S. PATENT DOCUMENTS**

| Examiner<br>Initials |   | Document Number | Date     | Name                | Class | Subclass | Filing Date |
|----------------------|---|-----------------|----------|---------------------|-------|----------|-------------|
| 1                    | 1 | 5,374,506       | 20.12.94 | Murphy, P.          |       | )        |             |
| 7                    | 2 | 5,543,503       | 06.08.96 | Chuntharapai et al. |       |          | 11.06.93    |

## **FOREIGN PATENT DOCUMENTS**

|   | aminer<br>ials |    | Document Number | Date     | Country | Class | Subclass | Transla<br>Yes | ation<br>No |
|---|----------------|----|-----------------|----------|---------|-------|----------|----------------|-------------|
|   | 2              | 3  | WO 92/17497     | 15.10.92 | PCT     | ·     |          |                |             |
|   | ~              | 4  | WO 92/18641     | 29.10.92 | PCT     |       |          |                |             |
| ( | $\overline{}$  | -5 | WO 93/06229     | 01.04.93 | PCT     |       |          |                |             |

|                          |            | OTHER DISCLOSURES (Including Author, Title, D  |  |  |  |  |  |  |
|--------------------------|------------|--|--|--|--|--|--|--|
| 2                        | 6          | Antibodies: A Laboratory Manual (Chapter 5), Harlow and Lane 72-76 (1988)  | , eds., Cold Spring Harbor Laboratory pps. |  |  |  |  |  |
| 2                        | 7          | Beckmann et al., "Molecular characterization of the interleukin-8 receptor" <u>Biochem. &amp; Biophys. Res.</u><br><u>Comm.</u> 179(2):784-789 (Sep 16, 1991)  |  |  |  |  |  |  |
| ~                        | 8          | Besemer et al., "Specific Binding, Internalization, and Degradation of Human Neutrophil Activating Factor by Human Neutrophil Activating Factor by Human Polymorphonuclear Leukocytes" <u>Journal of Biological Chemistry</u> 264:17409-17415 (1989) |  |  |  |  |  |  |
| ~                        | <b>^</b> 9 | Boulay et al., "Synthesis and use of a novel N-formyl peptic<br>peptide receptor cDNA" <u>Biochem. Biophys Res. Comm.</u> 168(3):11  | 03-1109 (1990)                             |  |  |  |  |  |
| ~                        | 10         | Broaddus et al., "Interleukin-8 is a major neutrophil chemot<br>with empyema" <u>Amer. Rev. Resp. Disease</u> 146:825-830 (1992)   |  |  |  |  |  |  |
| 7                        | . 11       | Chuntharapai et al., "Generation and characterization of monoclonal antibodies (mAbs) to human IL 8 receptor A" <u>J. Immunol.</u> (abstract #708) 150(8(2)):126A (May 1993)   |  |  |  |  |  |  |
| n                        | 12         | Chuntharapai et al., "Neutralizing monoclonal antibodies to human IL-8 receptor A map to the NH <sub>2</sub> -terminal region of the receptor" <u>J. Immunol.</u> 152(4):1783-1789 (1994)  |  |  |  |  |  |  |
| r                        | - 13       | Clark-Lewis et al., "Platelet factor 4 binds to interleukin 8 receptors and activates neutrophils when its N terminus is modified with Glu-Leu-Arg" <u>Proc. Natl. Acad. Sci. USA</u> 90(8):3574-3577 (Apr 15, 1993)                                 |  |  |  |  |  |  |
| à                        | _ 14       | Clark-Lewis et al., "Structure-Activity Relationships of Interleukin-8 Determined Using Chemically<br>Synthesized Analogs" <u>Journal of Biological Chemistry</u> 266(34):23128-23134 (1991)   |  |  |  |  |  |  |
| Er                       | 15         | D'Andrea et al., "Expression Cloning of the Murine Erythropoietin Receptor" <u>Cell</u> 57:277-285 (1989)  |  |  |  |  |  |  |
| 2                        | _16        | Dixon et al., "Structural features required for ligand binding to the A-adrenergic receptor" <u>EMBO</u> <u>Journal</u> 6(11):3269-3275 (1987)   |  |  |  |  |  |  |
| 2                        | 17         | Dixon, et al., "Structure-Function Analysis of the Beta-Adrenergic Receptor" <u>Cold Spring Har. Sym.</u> <u>Ouant. Biol.</u> 53:487-497 (1988)  |  |  |  |  |  |  |
| 92                       | 18         | Federsppiel et al., "Molecular cloning of the cDNA and chromosomal localization of the gene for a putative seven-transmembrane segment (7-TMS) receptor isolated from human spleen" <u>Genomics</u> 16:707-712 (1993)                                |  |  |  |  |  |  |
| 2                        |            | Feng, Yu et al., "HIV-1 entry cofactor: functional cDNA clon<br>protein-coupled receptor" <u>Science</u> 272:872-877 (1996)  | ing of a seven-transmembrane, G            |  |  |  |  |  |
| Examiner Date Considered |            |  |  |  |  |  |  |  |

\*Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

FORM PTO-1449 LIST OF DISCLOSURES CITED BY APPLICANT

U.S. Dept. of Commerce

Atty Docket No. P0706P2C2D2

Serial No.

09/104,063 Patent and Trademark Office Applicant Lee et al. Filing Date Group (Use several sheets if necessary) 24 Jun 1998 646 OTHER DISCLOSURES (Including Author, Title, Date, Pertinent Pages, etc.) Gayle III et al., "Importance of the Amino Terminus of the Interleukin-8 Receptor in Ligand Interactions Journal of Biological Chemistry 268(10):7283-7289 (1993) 20 Gerard & Gerard, "The chemotactic receptor for human C5a anaphylatoxin" Nature 349:614-617 (1991) 21 Grob et al., "Characterization of a Receptor for Human Monocyte-derived Neutrophil Chemotacic Factor/Interleukin-8" Journal of Biological Chemistry 265(14):8311-8316 (1990) Hammond et al., "Generation of neutralizing antibodies to human interleukin-8 (IL8) receptors" <u>J. Cell</u> 23 Biochem. (Suppl. 18B) 318:Abstract #0108 (1994) Harada et al. <u>Gene</u> 142:297-300 (1994) 24 Hebert et al., "Endothelial and Leukocyte Forms of IL-8: Conversion by Thrombin and Interactions with Neutrophils " J. Immunol, 145(9):3033-3040 (Nov 1, 1990) 25 Hebert et al., "Partial functional mapping of the human interleukin-8 type A receptor" Journal of Biological Chemistry 268(25):18549-18553 (1993) Hebert et al., "Scanning Mutagenesis of Interleukin-8 Identifies a Cluster of Residues Required for Receptor Binding" Journal of Biological Chemistry 266(28):18989-18994 (1991) Herzog et al., "Molecular cloning, characterization, and localization of the human homolog to the reported bovine NPY Y3 receptor: lack of NPY binding and activation" DNA and Cell Biology 12(6):465-471 28 (1993)Holmes et al., "Structure and Functional Expression of a Human Interleukin-8 Receptor" Science 253(5025):1278-1280 (Sep 13, 1991) 29 Jazin et al., "A proposed bovine neuropeptide Y (NPY) receptor cDNA clone, or its human homologue, confers neither NPY binding sites nor NPY responsiveness on transfected cells" Regulatory Peptides 30 47:247-258 (1993) Kahan et al. Current Opinion in Immunology 4:553-560 (1992) 31 Koch et al., "Interleukin-8 as a Macrophage-Derived Mediator of Angiogenesis" <u>Science</u> 258:1798-1801 Koch et al., "Synovial tissue macrophage as a source of the chemotactic cytokine IL-8" J. Immunol. 33 147(7):2187-2195 (1991) Kubo et al., "Cloning, sequencing and expression of complementary DNA encoding the muscarinic acetylcholine receptor" Nature 323:411-416 (1986) 34 LaRosa et al., "Amino terminus of the interleukin-8 receptor is a major determinant of receptor subtype specificity" Journal of Biological Chemistry 267(35):25402-25406 (1992) 35 Lee et al., "Characterization of Complementary DNA Clones Encoding the Rabbit IL-8 Receptor" Journal of <u>Immunology</u> 148(4):1261-1264 (Feb 15, 1992) 36 Lee et al., "Characterization of Two High Affinity Human Interleukin-8 Receptors" Journal of Biological Chemistry 267(23):16283-16287 (1992) 37 Lerner, R.A., "Tapping the Immunological Repertoire to Produce Antibodies of Predetermined Specificity" Nature 299:592-596 (Oct 1982) 38 Lindley et al., "NAP-1/IL-8 in Rheumatoid Arthritis" Advances in Experimental Medicine and Biology (Chemotactic Cytokines: Biology of the Inflammatory Peptide Supergene Family), Westwick, J. et al.(eds) Vol. 305:147-156 (1991) Examiner Date Considered

\*Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

LIST OF DISCLOSURES CITED BY APPLICANT

FORM PTO-1449

U.S. Dept. of Commerce

Patent and Trademark Office

Atty Docket No. Serial No. 09/104,063 P0706P2C2D2

**Applicant** 

Lee et al.

| (Use se   | everal sheets if necessary)   | Filing Date 24 Jun 1998                         | Group   |  |  |  |
|---|---|---|---|--|--|--|
|   | OTHER DISCLOSURES (Including Author, Title, Date, I   | Pertinent Pages, etc.)                          |   |  |  |  |
| <br>40  | Loetscher et al., "Cloning of a human seven-transmembrane domain expressed in leukocytes" <u>Journal of Biological Chemistry</u> 269(1)   |   | that is highly                                |  |  |  |
| <br>Mahida et al., "Enhanced synthesis of neutrophil-activating peptide-I/interleukin-8 in active ulcerat colitis" Clinical Science 82:273-275 (1992)   |   |   |   |  |  |  |
| <br>42  | Moser et al., "Interleukin-8 Antagonists Genenrated by N-terminal Modification" <u>Journal of Biological</u> 42 <u>Chemistry</u> 268(10):7125-7128 (1993)   |   |   |  |  |  |
| 43  | Murphy and Tiffany, "Cloning of complementary DNA encoding a functional human interleukin-8 receptor"  Science 253(5025):1280-1283 (Sep 13, 1991)   |   |   |  |  |  |
| 44  | Nomura, H. et al., "Molecular cloning of cDNAs encoding a LD78 receptor and putative leukocyte chemotactic peptide receptors" <u>International Immunology</u> 5(10):1239-1249 (1993)                                      |   |   |  |  |  |
| Oppenheim et al., "Properties of the novel proinflammatory supergene intercine" cytokine family"" Annu. 45 Rev. Immunol. 9:617-648 (1991)   |   |   |   |  |  |  |
| 46  | Peralta et al., "Distinct primary structures, ligand-binding proof four human muscarinic acetylcholine receptors" <a href="EMBO Journal">EMBO Journal</a>   | operties and tissue<br>5:3923-3929 (1987)       | e-specific expression                         |  |  |  |
| <br>47  | Prado et al. <u>Journal of Biological Chemistry</u> 269(17):12391-12394   | (April 29, 1994)                                | -   |  |  |  |
| 48  | Quan, J.M. et al., "Antibodies against the N-terminus of IL-8 re<br>Biochem. & Biophys. Res. Comm. 219:405-411 (1996)   | eceptor A inhibit r                             | neutrophil chemotaxis"                        |  |  |  |
| 49  | Ramachandran et al., "The Structural and Functional Interrelationships of Muscarinic Acetylcholine Receptor Subtypes" <u>Bioessays</u> 10:54-57 (1989)  |   |   |  |  |  |
| 50  | Samanta et al., "Identification and characterization of specific receptors for monocyte-derived neutrophil chemotactic factor (MDNCF) on human neutrophils" <u>Journal of Experimental Medicine</u> [169:1185-1189 (1989) |   |   |  |  |  |
| Saragovi et al., "The Murine Interleukin 2 Receptor: Irreversible Cross-Linking of Radiolabeled  Interleukin 2 to High Affinity Interleukin 2 Receptors Reveals a Noncovalently Associated Subunit" J.  Immunol. 139(6):1918-1926 (Sep. 15, 1987) |   |   |   |  |  |  |
| 52  | Sevier et al., "Monoclonal Antibodies in Clinical Immunology" Cl  | inical Chemistry 2                              | 27(11):1797-1806 (1981)                       |  |  |  |
| 53  | Sims et al., "cDNA Expression Cloning of the Il-1 Receptor, a Me<br>Science 241:585-589 (1988)  | mber of the Immuno                              | oglobulin Superfamily"                        |  |  |  |
| 54  | Sticherling et al., "Production and Characterization of Monoclor Neutrophil Activating Peptide NAP/IL-8" <u>J. Immunol.</u> 143(5):1628-  | al Antibodies Agai<br>1634 (September 1,        | nst the Novel<br>1989)                        |  |  |  |
| 55  | Strader et al., "Structural basis of A-adrenergic receptor funct  | ion" <u>FASEB</u> 3:1825-                       | -1832 (1989)                                  |  |  |  |
| 56  | Taylor, C. W., "The role of G proteins in transmembrane signalli (1990)   | ng" <u>Biochemical Jo</u>                       | ournal 272(1):1-13                            |  |  |  |
| 57  | Terkeltaub et al., "Monocyte-derived neutrophil chemotactic fact of crystal-induced inflammation" <a href="https://example.com/Arthr.and Rheum">Arthr.and Rheum</a> . 34:894-903 (1                                       |   | s a potential mediator                        |  |  |  |
| 58  | Thomas et al., "The Interleukin-8 Receptor Is Encoded by a Neutrof Biological Chemistry 266(23):14839-14841 (1991)  | ophil-specific cDN                              | NA clone, F3R" <u>Journal</u>                 |  |  |  |
| 59  | Thomas et al., "Molecular cloning of the fMet-Leu-Phe receptor f<br>Chemistry (published erratum appears in J Biol Chem 1992 Jul 5:2  | rom neutropils" <u>Jc</u><br>67(19):13780) 265( | ournal of Biological<br>(33):20061-20064 (Nov |  |  |  |

Examiner

Date Considered

\*Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

| 1. , <u>.</u> t       | O P E JCS J W                                      | · · · · · ·                         |                        | Sheet 4      |
|-----------------------|--|-------------------------------------|------------------------|--------------|
| FORM PTO-1449         | NOV 3 0 1998 E                                     | U.S. Dept. of Commerce              | Atty Docket No.        | Serial No.   |
|                       |  | Patent and Trademark Office         | P0706P2C2D2            | 09/104,0     |
|                       | ENT & IRADEMIN                                     | r dient and Trademark Office        | Applicant              |              |
| LIST OF DISCLOSURE    | S CITED BY APPEICANT                               |                                     | Lee et al.             |              |
| (Use several sheets i | f necessary)                                       |                                     | Filing Date            | Group &      |
|                       |  |                                     | 24 Jun 1998            | 16           |
|                       | OTHER DISCLOSU                                     | RES (Including Author, Title, Date, | Pertinent Pages, etc.) |              |
|                       | Cerami, "Macrophage inflamma<br>3:2565-2573 (1989) | atory proteins 1 and 2: memb        | ers of a novel supe    | rfamily of c |

| 7       | 60       | Wolpe & Cerami, "Macrophage inflammatory proteins 1 and 2: members of a novel superfamily of cytokines" FASEB J. 3:2565-2573 (1989)               |
|---------|----------|---|
| ~       | 61       | Ye et al., "Inhibition of IL-8 binding to the type B IL-8 receptor by an anti-IL-8 receptor antibody" FASEB J. (Abstract #786) 8(4-5):A136 (1994) |
|         |          |   |
|         |          |   |
|         |          |   |
|         |          |   |
|         |          |   |
|         |          |   |
|         |          |   |
|         |          |   |
|         |          |   |
|         |          |   |
|         |          |   |
| y A     |          |   |
|         |          |   |
|         |          |   |
|         |          |   |
|         |          |   |
|         |          |   |
| Examine | r        | Date Considered   |
| *Eyamin | er Init  | Date Considered                             |
| if not  | in confe | ormance and not considered. Include copy of this form with next communication to applicant.   |